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		USIB-D-41.18/8
		(COMOR-D-56/70)
		21 January 1965 Limited Distribution
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	UNITED STATES INTELL	LIGENCE BOARD
	MEMORANDUM FOR THE UNITED STATE	ES INTELLIGENCE BOARD
p i	SUBJECT : Statistical Evalua	tion of the First Fourteen
	GAMBIT Mission	
	REFERENCES : a. USIB-D-41.1	8/6 (COMOR-D-56/68)
	5 January 19	65, Limited Distribution
		8/7 (COMOR-D-56/69) 65, Limited Distribution
	, outlinary 17	
e service.		
	1. The attached memorandum	on the subject from the
	Committee on Overhead Reconnaissance (C	
	the USIB decision in paragraph 5.c. of refe for information and noting by the United Sta	
V .	(USIB).	
j.	2. The attachment is a coordin	
	2. The attachment is a coording previous evaluation circulated by reference	
	3. This item will be placed on at the meeting of 27 January 1965.	USIB agenda for noting
	and the interest of a contact y 17.00.	
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		25X1
	Execu	tive Secretary
	Attachment	
		GROUP 1 25X
		Excluded from automatic
2 0	<i>—TOP SECRE</i>	declassification

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MEMORANDUM FOR: United States Intelligence Board

SUBJECT:

Statistical Evaluation of the First

Fourteen GAMBIT Missions

REFERENCES:

a. USIB-D-41.18/6; COMOR-D-56/68

b. USIB-D-41.18/7; COMOR-D-56/69

- 1. At the meeting of the Board on 6 January the Board considered a memorandum (reference a) on the above subject which had been prepared at the request of the Chairman of the Board. At the meeting the Board deferred action and referred the paper to the Committee on Overhead Reconnaissance for review and coordination with the assistance of the (S) National Reconnaissance Office (see reference b).
- 2. The action requested by the Board has now been accomplished and the paper as revised is submitted to the Board for such action as it may wish to take.

James Q. Reber
Chairman
Committee on Overhead Reconnaissance

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	Tab A	(COMOR-D-56/70) January 1965 25X1
		Limited Distribution

Statistical Evaluation of the First Fourteen GAMBIT Missions

- 1. The purpose of this study is to evaluate the degree to which individual GAMBIT missions and the program as a whole have responded to requirements submitted by the COMOR. Whenever possible it indicates some of the factors which have affected performance. The analysis is based primarily on the photographic results as reported by NPIC in OAKs and MCIs and to a lesser degree on post-mission information furnished the COMOR by the (S) NRO.
- 2. General information for the first fourteen GAMBIT missions is as follows:

Missions	Launch Date	Days Scheduled	Days Operated	Recovered	<u>Remarks</u>
4001	12 Jul 63	1	1	Yes	One day mission, No roll capability planned, Vehicle became unstable at pass 9, 3 targets reported
4002	6 Sep 63	3	2	Yes	No roll planned, 10 targets reported
4003	25 Oct 63	2	2. 2.	Yes	No roll planned, 2 targets reported
4004	18 Dec 63	2	1	Yes	Orbit control vehicle became unstable on pass 4, No targets reported
4005	2 5 Feb 64	2	2*	Yes	Improper commands sent from ground caused a yaw error, 1st roll attempts, smeared photos
4006	11 Mar 64	3	3	Yes	170 targets reported
4007	23 Apr 64	3	4	Yes	206 targets reported 25X1

GROUP 1
Excluded from automatic downgrading and declassification

		TOP SECRET			Attachment USIB-D-41. 18/8 (COMOR-D-56/70) January 1965 Limited Distribution		
Missions	Launch Date	Days Scheduled	Days Operated	Recovered	Remarks		
4008	19 May 64	4	2*	Yes	Orbit control vehicle became unstable on pass 16, 52 targets reported		
4009	6 Jul 64	4	2 , ,	Yes	Orbit control vehicle unstable, No targets reported		
4010	14 Aug 64	5	4**	Yes (4th day)	Command problems 66 targets reported		
4011	24 Sep 64	5 .	4	Yes	244 targets reported		

*Only day I had successful camera operations. **Only 2 days had successful camera operations.

4012

4013

4014

8 Oct 64

23 Oct 64

4 Dec 64

To summarize the above it can be noted that no GAMBIT mission to date can be considered as having achieved its full potential. Due to system malfunctions, no useable photographs were obtained from Missions 4004, 4005, 4009, 4012, and 4013.

1

No

No

Yes

- Missions 4001 through 4003 were not programmed to roll; consequently, they were able to photograph only the limited number of assigned targets within the 10 to 12 mile photo swath lying directly under their tracks. This feature, in conjunction with the fact that they were planned for short duration, accounted for the limited number of targets acquired.
- Missions 4008, 4010, and 4014, while enhanced by the camera roll capabilities, suffered from technical difficulties and;

Agena failure

Recovery sequence failed

Power failure to stabilization

systems, 35 targets reported

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- d. Missions 4006 and 4007 were scheduled to operate three days. Mission 4011 was planned for five days and remained on orbit four days.
- 4. The tables which follow present detailed data related to the degree to which the GAMBIT program has responded to intelligence requirements. They include information on the number of targets obtained in stereo and mono; the number of targets photographed in clear weather, in scattered clouds, in total cloud cover; and the number of priority targets covered. An attempt is also made to determine the reasons underlying failure to obtain photography on priority targets.

5. Effect of Priorities on Target Coverage

(Stereo and Mono, 1st 3 Priorities, All Weather)

Mission	Assigned Priori	ty	Photog	Per C	Per Cent		
4002	Not available*		· 1	5 /			, 175 6 7
4003	Not available*			3			
4006	93		,	54		58	
4007	186		· .	99		54	
4008	154			20		13	
4010	181			16		9	
4011	195	er er		93		48	
4014	257		. 1	30		12	

^{*}Because they were assigned before target files were maintained by the use of the computer and the detailed records were not kept.

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Tab A cont.

As may be noted in the preceding table, different numbers of priority targets were assigned for the individual missions. Priorities were established based on intelligence requirements (modified in some cases by knowledge of the planned mission ephemeris which permitted insight into mission capability) and the practice of using target priorities to assist in obtaining maximum utilization of camera operations available. It demonstrates the responsiveness of the camera programming to the guidance submitted via target priorities and also demonstrates that pointing accuracy can be expected. In general the success of a given mission is directly related to proper functioning as designed and to the length of time in orbit. In the cases of Missions 4008, 4010 and 4014 limited target coverage was caused by the fact that these missions were hampered by technical difficulties and were recovered after only one or two days in orbit.

6. Effect of Specific Priority Values on Target Coverage (Stereo and Mono, All Weather)

Mission	Number of Priority l Targets	Photo- graphed	Per Cent	Number of Priority 2 Targets	Photo- graphed	Per Cent	Number of Priority 3 Targets	Photo- graphed	Per Cent
11006	32	21	66) _{IO}	22	55	21	ָבָב בָּב	52
Um	28	22	79	63	30	148	95	47	49
4008	16	3	19	48	7	15	90	10	li
holo	30	6	20	56	2	4	95.	8	8
14011	55	35	64	42	19	45	98, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	39	40
4014	56	8	15	69	11	16	132	וָבּ	9

As the above table shows, there is a higher degree of success in obtaining coverage of first priority targets than those assigned Priorities 2 and 3. This is part of the GAMBIT system design and obviously is working. As many as possible of the Priority 1 targets were used in the orbit select program (TOSP). It should be noted that success in obtaining photography of first priority targets is directly related to mission duration. Inclusion of these targets in this program almost guarantees that the mission will be programmed to fly in such proximity to them that photography can be obtained. In fact, had these missions successfully flown for the time planned, it is estimated that



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nearly all of the first priority targets would have been photographed. Ephemeris data were provided the COMOR for use in planning two early GAMBIT missions (4005 and 4006). These data were not available for missions 4007 - 4010; and as a result, target priorities were assigned without benefit of knowing the planned track. Insofar as Mission 4011 is concerned, it is believed that the high degree of success in photographing priority targets can be credited to the fact that pre-mission ephemeris information again was provided to COMOR for use in the assignment of target priorities and to the fact that the mission was on orbit four days.

Responsiveness to Requirements for Stereo 7. (All Weather, 1st 3 Priorities)

Mission	Priority Targets Photographed	Stereo	Mono
4002		5	0
4003	3	.3	0
4006	. 54	45	. 9
4007	99	76	23
4008	20	17	3
4010	16	* 12	4
4011	93	83	10
4014	30	13	17

The above table demonstrates that the GAMBIT system has the capability to thotograph a high percentage of targets in stereo when that mode is stipulated by the COMOR. It does not answer the question of the number of lower priority targets that could have been photographed in mono had mono coverage of high priority targets been authorized.

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Tab A cont.

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8.

Weather Distribution

(Stereo and Mono, 1st 3 Priorities)

Mission	Total	Clear	Scattered Clouds	Obscured
4002	5	5	0	0
4003	3	1	0	2
4006	54	26	9	19
4007	99	55	10	34
4008	20 4	7	1	12
4010	16	12	2	2
4011	93	38	11.	44
4014	30	3	5	22

Since the GAMBIT system is limited by factors other than film, no efforts are made to conserve film over targets anticipated to be covered by bad weather. Until ways are found to increase mission life, it appears that little advantage will accrue in playing weather as is accomplished in the management of the CORONA system. However, COMOR authorizes the Satellite Operations Center to adjust target priorities as necessary to maximize forecast favorable weather.

Reasons Priority Targets were not Photographed

Mission	ty Targets ot ographed	Out of Camera Range	-	tition w me or Priorit		w	petition with Priori		Indeterm	ined
4006	. 39	18	1 .	2			3		16	
4007	87	42		12		*	4		29	
4008	134	118	•	5			5		6	
4010	165	151		7			3	}	4	
4011	102	38		36			6		22	
4014	227	211	s . *	. 9 · ;	N _k Legi		6		: ' 1	

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				Limited Distribution	
	The preceding	z table demon	strates the impact of	short mission life and	
taro	et conflict on ol	ntaining cover	age of priority targe	ts. On Missions 4008,	
4010) and 4014 which	ch only flew or	ne or two days most	t targets missed were	
bevo	and the swath wi	dth of the lim	ited number of page	es flown. On the other	
hand	the longer lif	e missions 141	006, 4007 and 4011)	ware effected to	
coms	netition will cor	by target con	flicts caused by geog	graphic location. This	
fina	t time CAMPIT	itilitie to be tr	oublesome until mor	e targets have received	*-
20 4	o avoid conflict.	coverage, at	which time their pri	ority will be reduced so	
as l	o avoid confiict.				
	10. Conclu	-i			
	10. Conclu	sions:			:.
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	·				
			ssions which have be		
	demonstrated	that the syste	m has the capability	to respond to the	
	priority guida	nce provided	by COMOR. An imp	rovement in priority	
	target collect	ion has been n	oted as the COMOR	and (S) NRO have	
	gained experi-	ence in using	mission data includi	ng nominal ephemeris	
	in assignment	of target price	orities.		4.
2000					
	b. Un	til GAMBIT m	nissions regularly ca	n be flown for a	
	duration of for	ur or five day	s, it appears a limit	ed number of	
	targets will be	e photographe	d .		
	c. Be	cause of inher	ent system's limitat	tions (narrow swath	
	width and none	contiguous pho	otos), the number of	targets will be	
	limited. For	this reason th	ne selection and adju	stment of target	
	priorities is v	zerv important	to the successful m	anagement of the	
	GAMBIT paylo	nade	to the successful in	anagement of the	
	dillibri payi	Jaab.			
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			Tab B	□ (COMOF	R-D-56/70) ary 1965	
					Distribution	
Al 20						
	Statistic	al Evaluation	of GAMBIT Missio	n 4011		
	1. Th	e purpose of th	his study is to eval	uate the degree	e to which	
Mis		1.140 (0)	MOD requirements	as a whole whi	ite giving	ı
		1171	ncipal targets" whi	Cates some or	CITC TOO A DE	
_	CC / 1	of a management of T	ha analysis is Dasc	d britingriff on	. 0110 P110 page as fire	.c
	with a c range	ted by NPIC in	i the OAK and the N	ACI and to a re	Duor dob-	
pos	t-mission inf	ormation furni	ished the COMOR b	by the (S) NRO.		
•						
	2. Mi	ission 4011 wa	s scheduled to fly	iive days again	B. C. 50002	ď
279	6 targets ass	igned prioritie	es as follows.			
		Priority	Number	of Targets		
	•					
		la		2		
r r		$\frac{1\overline{b}}{1\underline{c}}$		27		
		1 <u>c</u>		26		
* **		2	en e	42		
		3	•	98		
		4		456		4.
		4 5		456 145		
		5		145		
	3. A	5 s indicated in	paragraph l, prior	145 ity assignment	s were	
inf	3. A luenced by th	5 s indicated in		145 ity assignment	s were	
inf	3. A A fluenced by th	5 s indicated in	paragraph l, prior	145 ity assignment	s were	
inf	3. A A fluenced by th	5 s indicated in	paragraph l, prior	145 ity assignment	s were	
inf	3. A Eluenced by th	5 s indicated in	paragraph l, prior	145 ity assignment	s were	
inf	3. A A fluenced by th	5 s indicated in	paragraph l, prior	145 ity assignment	s were	
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inf	3. A Eluenced by th	5 s indicated in	paragraph l, prior	145 ity assignment	s were	
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inf	3. A fluenced by th	5 s indicated in	paragraph l, prior	145 ity assignment	swere	
inf	3. A fluenced by th	5 s indicated in	paragraph l, prior	145 ity assignment	s were	
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so as to the greatimes r priority number hand, s	maximize can atest number of esulted in a re- to assure the of targets cou- ome targets, priority, were	mera operations of targets possib elatively low pri e camera's being ald be photograp which because	and thus accorde. This use ority target by g turned on over whed on one but of intelligence at priority si	rere often selected quire photography of e of priorities some- peing assigned a high rer locations where a arst. On the other importance merited nee their geographic low priority.	
the acture is alvage of very of high creating planner.	c. In additional orbit devia e!' by assigning important but priority targed g high priority l). As missional	n, to assure ma ted from that pl ng priorities wh t lower priority ets was artificia y target conflict	ximum intelli anned, an att ich would res targets. As lly increased s if the missi e Satellite Op	gence take in case empt was made to ult in the programmin a result, the number (even to the point of on performed as erations Center is tain maximum target	g
photogi interes	anhed by GAN	MBIT missions	but of sufficie	e targets previously nt intelligence t with other targets.	

4. The following table contains details of targets photographed showing coverage by priority, mode of coverage (stereo and mono) and existing weather.

Priority Priority Priority 1 TOTAL TOTAL а Total Total Targets Submitted Targets Photographed in Stereo Clear25X1 Scattered Clouds :2 Obscured by Clouds Targets Photographed in Mono Clear Scattered Clouds 3 Obscured by Clouds TOTAL Targets Photographed 35^a 93^b 25X1

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a - 65% of Priority 1 targets

b - 48% of Priorities 1 - 3

c - 19% of all targets

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				USIB-D-41.18/8	
		Tab B con	t.	(COMOR-D-56/70)	
				January 1965	
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	5. a.	As also shown in the a	bove table,	a greater	
	percentage of tar	rgets in high priority	ategories w	ere photo-	
	graphed than wer	re those in lower prio because there were a	areater nun	nher of	
	occurred in part	argets in competition	for coverage	e by the	
•	limited number (of camera operations	available. I	t also	
	occurred for the	reasons explained in	paragraphs	3b and c	. 4
	above.		- 5 -	- -	
	b.	At the time of launch	of Mission 4	011, the	
	USIB requiremen	nt stipulated that stere	eo photograp	hy was	
	required on all h	nigh priority targets.	As indicated	d in the	
	table, this miss	ion photographed 83 ta	rgets in ste	reo, 44	
	of which were ol	oscured by cloud cove	r. Ten prior	rity	T
	targets were rep	ported by NPIC as cov	ered by mon	o rather	
	than stereo phot	ography. However, t	ne mission d	lata	
	provided COMO	R by the (S) NRO indic	ates that ste	reo	
- Fine	photography was	attempted of these sa	me targets.	and and	,
(()	investigation we	considered the possib portion of what should	have been a	stereo	
	cover over one	equisition of stereo c	overage. Tl	nis	
	apparently occur	rred on five of the tar	gets (those o	covered	An L
	with scattered c	louds) leaving five wh	ich we must	conclude	
	were simply mi				
	Word billipry lill				
	6. The foll	owing table provides	an analysis d	of the reason for	
failu	re to obtain photo	graphy of priority tar	gets. It sho	uld be noted that	
	ostantial number	of the targets not phot	ographed (al	oout one-third)	
a su	in conflict with t	argets of higher prior	ity.		
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			Tab E	3 cont.	(COMC	ment D-41, 18/8 PR-D-56/	
Reason for Failure to a Obtain Photography	Prio	rity 1	[]Total	Priority 2	Priority 3	TOTAL	
a. Beyond Range *	6	3	9	5	24	38	
b. Conflict with Higher Priority Target		2	2	13	19	34	-
c. Conflict with Equal Priority Target				2	6	8	
d. Undetermined	1	8	9	3	10	22	
TOTAL	7	13	20	23	59	102	
			-14-				

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Attachment
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Performance of Mission 4011

January 1965 Limited Distribution

COMOR Targets within Camera Range

Tab B cont.

(All Weather)

Day		Camera Operations Possible ^a	Camera Operations Accomplished b	COMOR Targets Assigned Preference	Preferred Targets Photographed	Other COMOR Targets within Camera Range	Other COMOR Targets Photographed	Total COMOR Targets Photographed	
		1 5 25 25 22 15 14 9	1 8 8 7 8 14 8	1 0 5 3 1 2 6 7	1 0 5 3 1 2 6 6	5 1 81 23 8 39 83 216	1 13 9 8 16 37 31	2 18 12 9 18 43 37	25X1
TOTAL		106	55	25	24	456	116	140	*
		2 10 12 26 21 16 14 13	2 6 6 13 6 7 14 12	0 1 2 6 2 4 7 13	0 1 2 6 2 4 7 11	4 20 49 56 19 21 142 371	2 11 20 15 5 5 29 32	2 12 22 21 7 9 36 43	A second of the
TOTAL	X	114	66	35	33	682	119	152	de deservations de

COMOR Targets within Camera Range (cont.)

(All Weather)

Day		Camera Operations Possible ^a	Camera Operations Accomplished b	COMOR Targets Assigned Preference	Preferred Targets Photographed ^c	Other COMOR Targets within Camera Range	Targets	Total COMOR Targets Photographed	d
ш		1 5 10 22 20 15 20 20 6	1 6 10 7 7 14 14	1022128882	1022128832	1 36 42 9 18 46 187 40	1 11 8 6 7 13 23	2 1 13 10 7 9 21 31	25X
TOTAL		119	64	26	26	380	74	100	
IV		5 5 22 25 20 20 20 12	1 3 11 10 12 11 12 4	1 0 8 3 5 9 6 3	1 0 8 3 5 8 6 3	2 3 33 33 43 57 71 39	2 2 19 6 19 16 21 5	3 2 27 9 24 24 27 8	
TOTAL	X	113	64	36	3 ¹ 4	281	.90	124	
Mission TOTAL		452	239	122	117	1799	399	516	

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			Li	mited Distr	ibution
d. While t	he orbit adju	st capability pe	rmitted good	coverage	
or two very high	n priority tar	rgets, it must b	e recognized	that its	
use caused orbi	t traces to g	roup, thus seve	rely limiting	the	
geographic area	brought wit	hin camera rang	ge.		
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				en e	
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	Footnotes to Fo	regoing Table	er en
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d Additional tare	vets would have com	e within camera range had	thie
		nd if the orbit adjust operation	
		principal targets as explain	
in Tab B, had i	not been undertaken.		en e
8. Conclusions:			
a. Based on	the degree of succe	ess in acquiring photograph	y of
COMOR targets by	ut excluding conside	erations related to photo qua	ality
		contrast, small scale, etc	.),
Mission 4011 must GAMBIT series.	; be considered to be	e the most effective of the	
GAMDII selles.			en ja militaria eta eta eta eta eta eta eta eta eta et
b. One reas	on for the high degr	ee of success in acquiring	æ
desired photos car	The state of the s	e fact that pre-launch miss	
•		R, thus enabling it to assig	
		diffize the photographic tak	♥•
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